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PPLICATION NO.	F	TILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/929,855	•	08/14/2001	James L. Todsen	38880.2200	9850
23494	7590	04/26/2005		EXAM	INER
TEXAS IN	STRUM	ENTS INCORPOR	MAI, TAN V		
P O BOX 65	5474, M/	S 3999			
DALLAS, 7	ΓX 7526	5		ART UNIT	PAPER NUMBER
				2193	
				DATE MAIL ED: 04/26/2004	ς .

Please find below and/or attached an Office communication concerning this application or proceeding.

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<i>V 1</i>

		Application No.	Applicant(s)			
		09/929,855	TODSEN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Tan V. Mai	2193			
Period fo	The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address			
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reploperiod for reply is specified above, the maximum statutory period into the reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing		mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status	ed patent term adjustment. See 37 CFR 1.704(b).					
1) 又	Responsive to communication(s) filed on 171	March 2005				
		s action is non-final.				
′=	Since this application is in condition for allowa		osecution as to the merits is			
_	closed in accordance with the practice under	·				
Disposit	ion of Claims					
·	Claim(s) 1-29 is/are pending in the application	1.				
-	4a) Of the above claim(s) is/are withdra					
	Claim(s) <u>4-12,16,17,20-22,27 and 28</u> is/are allowed.					
· · · · · · · · · · · · · · · · · · ·	Claim(s) 1,3,13,14,18,19,23,25,26 and 29 is/a					
7)🖂	Claim(s) 2,15 and 24 is/are objected to.	•				
8)[Claim(s) are subject to restriction and/	or election requirement.				
Applicat	ion Papers					
9)□	The specification is objected to by the Examin	er.				
-	The drawing(s) filed on is/are: a) ac		Examiner.			
/—	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	` '			
11)[The oath or declaration is objected to by the E					
Priority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreig.	n priority under 35 H.S.C. & 110/a	u)_(d) or (f)			
	☐ All b)☐ Some * c)☐ None of:	priority under 00 0.0.0. 3 113(a	1)-(a) or (1).			
-/	1. Certified copies of the priority documen	ts have been received.				
	2. Certified copies of the priority document		ion No.			
	3. Copies of the certified copies of the prid					
	application from the International Burea	·	und Haddiai Olago			
* 5	See the attached detailed Office action for a lis		ed.			
Attachmen	t(a)					
	e of References Cited (PTO-892)	4) Interview Summary	/ (PTO-413)			
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
3) Inform	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date		Patent Application (PTO-152)			
Pana		6) 🔲 Other:				

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1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (c) he has abandoned the invention.
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

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Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

(f) he did not himself invent the subject matter sought to be patented.

(g)(1) during the course of an interference conducted under section 135 or section 291, another inventor involved therein establishes, to the extent permitted in section 104, that before such person's invention thereof the invention was made by such other inventor and not abandoned, suppressed, or concealed, or (2) before such person's invention thereof, the invention was made in this country by another inventor who had not abandoned, suppressed, or concealed it. In determining priority of invention under this subsection, there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.

Claim 29 is rejected under 35 U.S.C. 102(e) as being clearly anticipated by Page et al.

Page et al teach the claimed combination, e.g., see Abstract and Fig. 14 (first digital filter "9 taps" (630) and second digital filter "10 taps" (610 & 620)).

3. Claims 1, 3, 13-14, 18-19, 23 and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Page et al.

As per independent claim 1, Page et al discloses, e.g., see Fig. 14, the invention substantially as claimed, including: a plurality of parallel filters which comprise a "composite filter arrangement". Element (630) and elements (610, 620) are considered the claimed first and second digital filters, respectively. It is noted that Page et al do not specifically detail the claimed:

"second digital filter having a <u>second settling rate that is **slower** than said first</u> <u>settling rate</u> and a <u>second level of noise resolution that is **higher** than said first level of noise resolution".</u>

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However, Page et al do disclose the same functions, i.e., (1) Page et al disclose the second digital filter (610, 620) having a second settling rate that is slower than said first settling rate because the second digital filter (610, 620) has more "taps" than the first digital filter (630) and (2) a second level of noise resolution that is higher than said first level of noise resolution because the "combined" noise resolution of the second digital filter (610, 620) should be higher than the first digital filter. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to design the claimed invention according to Page et al 's teachings because the device has a plurality of parallel filters which comprise a composite filter arrangement as claimed.

As per dependent claim 3, Page et al disclose a "plurality of sinc filters".

Therefore, the claimed "third digital filter" are obvious to a person having ordinary skill in the art.

Due to the similarity of claim 13-14, 18-19, 23 and 25-26 to claims 1 and 3, they are rejected under a similar rationale.

- 4. Claims 2, 15 and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Due to the new grounds of rejection cited above, that the office action is NON-FINAL.

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6. The following is an examiner's statement of reasons for allowance: the recorded

references do NOT teach or suggest the detail features as recited in dependent claims

2, 15 and 24.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726.

The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kakali Chaki, can be reached on (571) 272-3719. The fax phone number

for the organization where this application or proceeding is assigned is:

Official

(703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (571) 272-

2100.

Tan V. Mai Primary Examiner

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